DETAILED ESTIMATE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Virupakshapura, Bhudha Jyothi Layout Kodigenahalli , Maruthi Layout and Surrounding Areas in Ward No. 09, Vidyaranyapura

Estimation Cost.Rs 47500000.00

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead I By Manual Means B Cement Concrete Grade M-15 & M-20 (PWD SR 2021-22 Vol III Pg no 8 Item No 2.7(i))								
	For Culvert Deck Slab	Cum							
	Ganesh Nagara								
	8thA Cross Road	Cum	1	6.00	1.50	0.23	2.07		
	8thB Cross Road	Cum	1	4.50	1.50	0.23	1.55		
	9th Cross Road	Cum	1	5.40	1.50	0.23	1.86		
	10th Cross Road	Cum	1	5.10	1.50	0.23	1.76		
	Maruthi Layout								
		Cum	1	5.10	1.50	0.23	1.76		
		Cum	1	5.50	1.50	0.23	1.90		
	Siddhi Vinayaka Layout								
	1st Main Road	Cum	1	3.90	1.50	0.23	1.35		
	2nd Cross Road	Cum	1	4.70	1.50	0.23	1.62		
	2ndA Cross Road	Cum	1	5.10	1.50	0.23	1.76		
	5th Main Road	Cum	1	5.00	1.50	0.23	1.73		
	Basic rate	731.00							
	Area weightage 10%	73.10							
	Sub Total	**804.10**							
	Total						**17.35**	**804.10**	**13954.00**
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead (iii) Dismantling Stone Masonry B Rubble stone masonry in cement mortar. (PWD SR 2021-22 Vol III Pg no 8 Item No 2.10(iv))								
	SSm Wall	Cum							
	Ganesh Nagara								
	8thA Cross Road	Cum	2	6.00	0.45	0.50	2.70		
	8thB Cross Road	Cum	2	4.50	0.45	0.50	2.03		
	9th Cross Road	Cum	2	5.40	0.45	0.50	2.43		
	10th Cross Road	Cum	2	5.10	0.45	0.50	2.30		
	Maruthi Layout								
		Cum	2	5.10	0.45	0.50	2.30		
		Cum	2	5.50	0.45	0.50	2.48		

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Siddhi Vinayaka Layout								
	1st Main Road	Cum	2	3.90	0.45	0.50	1.76		
	2nd Cross Road	Cum	2	4.70	0.45	0.50	2.12		
	2ndA Cross Road	Cum	2	5.10	0.45	0.50	2.30		
	5th Main Road	Cum	2	5.00	0.45	0.50	2.25		
	Basic rate	481.00							
	Area weightage 10%	48.10							
	Sub Total	**529.10**							
	Total						**22.64**	**529.10**	**11977.00**
3	**Removing and refixing stone slabs of drains and pointing in CM (1:3) (PWD SR 2018-2019 P.No-27,I No-5.33)**								
		Sqm							
	BS Slab of Drain								
	Open Drain (Sides & Bottom)	**Sqm**	Width=Perimeter of Drain in U Shape						
	Ganesh Nagara								
	6th Cross Road	Sqm	2	167.80	1.35		453.06		
	7th Cross Road	Sqm	2	147.90	1.35		399.33		
	7th A Cross Road	Sqm	2	117.00	1.35		315.90		
	8th C Cross Road	Sqm	2	197.00	1.35		531.90		
	8th B Cross Road	Sqm	2	93.00	1.35		251.10		
	8th A Cross Road	Sqm	2	108.00	1.35		291.60		
	9th Cross Road	Sqm	2	58.00	1.35		156.60		
	Maruthi Layout								
	9th Cross Road	Sqm	2	117.00	1.35		315.90		
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	2	207.50	1.35		560.25		
	2nd A Cross Road	Sqm	2	46.00	1.35		124.20		
	2nd Cross Road	Sqm	2	30.30	1.35		81.81		
					Total		3481.65		
	Deduct 30% for Missing/Damaged						1044.50		
	Consider 70% Qnty for Removing & Refixing						2437.16		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**							
	Total						**2437.16**	**111.30**	**271256.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
New Drain	**Cum**								
Ganesh Nagara									
10th Cross Road	Cum	2	52.00	1.10	0.90	102.96			
11th Cross Road	Cum	2	157.00	1.10	1.05	362.67			
Pillappa Layout									
W0815	Cum	2	235.00	1.10	1.20	620.40			
Siddhi Vinayaka Layout									
1st Main Road	Cum	2	104.00	1.10	1.00	228.80			
Cross Road 1	Cum	2	35.00	1.10	0.90	69.30			
5th Main Road	Cum	2	32.00	1.10	0.95	66.88			
Maruthi Layout									
8th Cross Road	Cum	2	52.00	0.95	0.90	88.92			
	Cum	2	34.00	0.95	1.05	67.83			
10th Cross Road	Cum	2	29.00	0.95	1.05	57.86			
7th Cross Road	Cum	2	36.00	0.95	0.90	61.56			
New Culvert	**Cum**								
Ganesh Nagara									
8thA Cross Road	Cum	1	6.00	1.40	0.95	7.98			
8thB Cross Road	Cum	1	4.50	1.40	0.95	5.99			
9th Cross Road	Cum	1	5.40	1.40	0.95	7.18			
10th Cross Road	Cum	1	5.10	1.40	0.95	6.78			
11th Cross Road	Cum	1	5.60	1.40	0.95	7.45			
Maruthi Layout									
	Cum	1	6.00	1.40	0.95	7.98			
	Cum	1	5.10	1.40	0.95	6.78			
	Cum	1	5.50	1.40	0.95	7.32			
Siddhi Vinayaka Layout									
1st Main Road	Cum	1	3.90	1.40	0.95	5.19			
2nd Cross Road	Cum	1	4.70	1.40	0.95	6.25			
2ndA Cross Road	Cum	1	5.10	1.40	0.95	6.78			
5th Main Road	Cum	1	5.00	1.40	0.95	6.65			
	Cum	2	6.00	1.40	0.95	15.96			
Drain Desilt	**Cum**								
Ganesh Nagara									
6th Cross Road	Cum	2	167.80	0.45	0.45	67.96			

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	7th Cross Road	Cum	2	147.90	0.45	0.45	59.90		
	7th A Cross Road	Cum	2	117.00	0.45	0.45	47.39		
	8th C Cross Road	Cum	2	197.00	0.45	0.45	79.79		
	8th B Cross Road	Cum	2	93.00	0.45	0.45	37.67		
	8th A Cross Road	Cum	2	108.00	0.45	0.45	43.74		
	9th Cross Road	Cum	2	58.00	0.45	0.45	23.49		
	Maruthi Layout								
	9th Cross Road	Cum	2	117.00	0.45	0.45	47.39		
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	2	207.50	0.45	0.45	84.04		
	2nd A Cross Road	Cum	2	46.00	0.45	0.45	18.63		
	2nd Cross Road	Cum	2	30.30	0.45	0.45	12.27		
	For Flagging Coarse Ganesh Nagara								
	6th Cross Road	Cum	2	167.80	0.15	0.45	22.65		
	7th Cross Road	Cum	2	147.90	0.15	0.45	19.97		
	7th A Cross Road	Cum	2	117.00	0.15	0.45	15.80		
	8th C Cross Road	Cum	2	197.00	0.15	0.45	26.60		
	8th B Cross Road	Cum	2	93.00	0.15	0.45	12.56		
	8th A Cross Road	Cum	2	108.00	0.15	0.45	14.58		
	9th Cross Road	Cum	2	58.00	0.15	0.20	3.48		
	Maruthi Layout								
	9th Cross Road	Cum	2	117.00	0.15	0.45	15.80		
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	2	207.50	0.15	0.45	28.01		
	2nd A Cross Road	Cum	2	46.00	0.15	0.45	6.21		
	2nd Cross Road	Cum	2	30.30	0.15	0.45	4.09		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	**204.60**							
	Total						**2517.44**	**204.60**	**515069.00**
5	Providing granite slabs of selected quality roughly dressed having a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(PWD SR 2018-2019 P.No.27,I.No.5.31.1)								
		Sqm							
	Provide 30% new BS Slab	From item no.01					1044.50		
	Basic rate	700.00							
	Area weightage 6%	42.00							
	Sub Total	**742.00**							
	Total						**1044.50**	**742.00**	**775016.00**

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
6	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.2)								
		Sqm							
	Cover Slab								
	Ganesh Nagara								
	10th Cross Road	Sqm	2	52.00	0.90		93.60		
	11th Cross Road	Sqm	2	157.00	0.90		282.60		
	Pillappa Layout								
	W0815	Sqm	2	235.00	0.90		423.00		
	Siddhi Vinayaka Layout								
	1st Main Road	Sqm	2	104.00	0.90		187.20		
	5th Main Road	Sqm	2	32.00	0.90		57.60		
	Maruthi Layout								
	8th Cross Road	Sqm	2	52.00	0.75		78.00		
		Sqm	2	34.00	0.75		51.00		
	7th Cross Road	Sqm	2	36.00	0.75		54.00		
	Flagging coarse								
	Ganesh Nagara								
	6th Cross Road	Sqm	2	167.80	0.90		302.04		
	7th Cross Road	Sqm	2	147.90	0.90		266.22		
	7th A Cross Road	Sqm	2	117.00	0.90		210.60		
	8th C Cross Road	Sqm	2	197.00	0.90		354.60		
	8th B Cross Road	Sqm	2	93.00	0.90		167.40		
	8th A Cross Road	Sqm	2	108.00	0.90		194.40		
	9th Cross Road	Sqm	2	58.00	0.90		104.40		
	Maruthi Layout								
	9th Cross Road	Sqm	2	117.00	0.90		210.60		
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	2	207.50	0.90		373.50		
					Total		3410.76		
	Provide 30% for Missing/Damaged						**1023.23**		
	Basic rate	912.00							
	Area weightage 6%	54.72							
	Sub Total	**966.72**							
	Total						**1023.23**	**966.72**	**989175.00**

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
7	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	For Drain	**Cum**							
	Ganesh Nagara								
	10th Cross Road	Cum	2	52.00	1.10	0.15	17.16		
	11th Cross Road	Cum	2	157.00	1.10	0.15	51.81		
	Pillappa Layout								
	W0815	Cum	2	235.00	1.10	0.15	77.55		
	Siddhi Vinayaka Layout								
	1st Main Road	Cum	2	104.00	1.10	0.15	34.32		
	Cross Road 1	Cum	2	35.00	1.10	0.15	11.55		
	5th Main Road	Cum	2	32.00	1.10	0.15	10.56		
	Maruthi Layout								
	8th Cross Road	Cum	2	52.00	0.95	0.15	14.82		
		Cum	2	34.00	0.95	0.15	9.69		
	10th Cross Road	Cum	2	29.00	0.95	0.15	8.27		
	7th Cross Road	Cum	2	36.00	0.95	0.15	10.26		
	For Culvert								
	Ganesh Nagara								
	8thA Cross Road	Cum	1	6.00	1.40	0.15	1.26		
	8thB Cross Road	Cum	1	4.50	1.40	0.15	0.95		
	9th Cross Road	Cum	1	5.40	1.40	0.15	1.13		
	10th Cross Road	Cum	1	5.10	1.40	0.15	1.07		
	11th Cross Road	Cum	1	5.60	1.40	0.15	1.18		
	Maruthi Layout								
		Cum	1	6.00	1.40	0.15	1.26		
		Cum	1	5.10	1.40	0.15	1.07		
		Cum	1	5.50	1.40	0.15	1.16		
	Siddhi Vinayaka Layout								
	1st Main Road	Cum	1	3.90	1.40	0.15	0.82		
	2nd Cross Road	Cum	1	4.70	1.40	0.15	0.99		
	2ndA Cross Road	Cum	1	5.10	1.40	0.15	1.07		

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	5th Main Road	Cum	1	5.00	1.40	0.15	1.05		
		Cum	2	6.00	1.40	0.15	2.52		
	Basic rate	5752.00							
	Area weightage 10%	575.20							
	Sub Total	**6327.20**							
	Total						**261.50**	**6327.20**	**1654589.00**
8	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	Drain								
	Bottom Raft	**Cum**							
	Ganesh Nagara								
	10th Cross Road	Cum	2	52.00	0.90	0.15	14.04		
	11th Cross Road	Cum	2	157.00	0.90	0.15	42.39		
	Pillappa Layout								
	W0815	Cum	2	235.00	0.90	0.15	63.45		
	Siddhi Vinayaka								
	1st Main Road	Cum	2	104.00	0.90	0.15	28.08		
	Cross Road 1	Cum	2	35.00	0.90	0.15	9.45		
	5th Main Road	Cum	2	32.00	0.90	0.15	8.64		
	Maruthi Layout								
	8th Cross Road	Cum	2	52.00	0.75	0.15	11.70		
		Cum	2	34.00	0.75	0.15	7.65		
	10th Cross Road	Cum	2	29.00	0.75	0.15	6.53		
	7th Cross Road	Cum	2	36.00	0.75	0.15	8.10		
	Side Wall	**Cum**							
	Ganesh Nagara								
	10th Cross Road	Cum	4	52.00	0.15	0.60	18.72		
	11th Cross Road	Cum	4	157.00	0.15	0.75	70.65		
	Pillappa Layout								
	W0815	Cum	4	235.00	0.15	0.90	126.90		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Siddhi Vinayaka								
	1st Main Road	Cum	4	104.00	0.15	0.70	43.68		
	Cross Road 1	Cum	4	35.00	0.15	0.60	12.60		
	5th Main Road	Cum	4	32.00	0.15	0.65	12.48		
	Maruthi Layout								
	8th Cross Road	Cum	4	52.00	0.15	0.60	18.72		
		Cum	4	34.00	0.15	0.75	15.30		
	10th Cross Road	Cum	4	29.00	0.15	0.75	13.05		
	7th Cross Road	Cum	4	36.00	0.15	0.60	12.96		
					Sub Total		**545.09**		
	For Culvert								
	Bottom Raft	**Cum**							
	Ganesh Nagara								
	8thA Cross Road	Cum	1	6.00	1.20	0.20	1.44		
	8thB Cross Road	Cum	1	4.50	1.20	0.20	1.08		
	9th Cross Road	Cum	1	5.40	1.20	0.20	1.30		
	10th Cross Road	Cum	1	5.10	1.20	0.20	1.22		
	11th Cross Road	Cum	1	5.60	1.20	0.20	1.34		
	Maruthi Layout								
		Cum	1	6.00	1.20	0.20	1.44		
		Cum	1	5.10	1.20	0.20	1.22		
		Cum	1	5.50	1.20	0.20	1.32		
	Siddhi Vinayaka								
	1st Main Road	Cum	1	3.90	1.20	0.20	0.94		
	2nd Cross Road	Cum	1	4.70	1.20	0.20	1.13		
	2ndA Cross Road	Cum	1	5.10	1.20	0.20	1.22		
	5th Main Road	Cum	1	5.00	1.20	0.20	1.20		
		Cum	2	6.00	1.20	0.20	2.88		
	Side Wall	**Cum**							
	Ganesh Nagara								
	8thA Cross Road	Cum	2	6.00	0.20	0.60	1.44		
	8thB Cross Road	Cum	2	4.50	0.20	0.60	1.08		
	9th Cross Road	Cum	2	5.40	0.20	0.60	1.30		
	10th Cross Road	Cum	2	5.10	0.20	0.60	1.22		
	11th Cross Road	Cum	2	5.60	0.20	0.60	1.34		
	Maruthi Layout								

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
		Cum	2	6.00	0.20	0.60	1.44		
		Cum	2	5.10	0.20	0.60	1.22		
		Cum	2	5.50	0.20	0.60	1.32		
	Siddhi Vinayaka								
	1st Main Road	Cum	2	3.90	0.20	0.60	0.94		
	2nd Cross Road	Cum	2	4.70	0.20	0.60	1.13		
	2ndA Cross Road	Cum	2	5.10	0.20	0.60	1.22		
	5th Main Road	Cum	2	5.00	0.20	0.60	1.20		
		Cum	4	6.00	0.20	0.60	2.88		
					Sub Total		**35.47**		
	Basic rate	6256.00							
	Add 5% for Shuttering	312.80							
		6568.80							
	Area weightage 10%	656.88							
	Sub Total	**7225.68**							
	Total						**580.56**	**7225.68**	**4194920.00**
9	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and								
	For Drain	Cum					545.09		
		kg	Steel assumed 60Kg/Cum of Concrete				32705.10		
		tonne					**32.71**		
	For Culvert	Cum					35.47		
		kg	Steel assumed 90 Kg/Cum of Concrete				3192.48		
		tonne					**3.19**		
	Basic rate	103329.00							
	Area weightage 10%	10332.90							
	Sub Total	**113661.90**							
	Total						**35.90**	**113661.90**	**4080188.00**
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	New Drain Cover Slab								
	Ganesh Nagara								
	10th Cross Road	Sqm	2	52.00	0.90		93.60		
	11th Cross Road	Sqm	2	157.00	0.90		282.60		
	Pillappa Layout								
	W0815	Sqm	2	235.00	0.90		423.00		
	Siddhi Vinayaka Layout								
	1st Main Road	Sqm	2	104.00	0.90		187.20		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	5th Main Road	Sqm	2	32.00	0.90		57.60		
	Maruthi Layout								
	8th Cross Road	Sqm	2	52.00	0.75		78.00		
		Sqm	2	34.00	0.75		51.00		
	7th Cross Road	Sqm	2	36.00	0.75		54.00		
	Flagging Course								
	Ganesh Nagara								
	6th Cross Road	Sqm	2	167.80	0.90		302.04		
	7th Cross Road	Sqm	2	147.90	0.90		266.22		
	7th A Cross Road	Sqm	2	117.00	0.90		210.60		
	8th C Cross Road	Sqm	2	197.00	0.90		354.60		
	8th B Cross Road	Sqm	2	93.00	0.90		167.40		
	8th A Cross Road	Sqm	2	108.00	0.90		194.40		
	9th Cross Road	Sqm	2	58.00	0.90		104.40		
	Maruthi Layout								
	9th Cross Road	Sqm	2	117.00	0.90		210.60		
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	2	207.50	0.90		373.50		
					Total		3410.76		
	Provide 70% for Missing/Damaged						**2387.53**		
	Maruthi Layout								
	10th Cross Road	Sqm	2	29.00	0.75		43.50		
	Siddhi Vinayaka Layout								
	Cross Road 1	Sqm	2	35.00	0.90		63.00		
	2nd A Cross Road	Cum	2	46.00	0.90		82.80		
	2nd Cross Road	Cum	2	30.30	0.90		54.54		
					Total		**243.84**		
	Data rate	**2337.00**							
	Total						**2631.37**	**2337.00**	**6149517.00**
11	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert Cover Slab	Sqm							
	Ganesh Nagara								
	8thA Cross Road	Cum	1	6.00	1.20		7.20		
	8thB Cross Road	Cum	1	4.50	1.20		5.40		
	9th Cross Road	Cum	1	5.40	1.20		6.48		
	10th Cross Road	Cum	1	5.10	1.20		6.12		
	11th Cross Road	Cum	1	5.60	1.20		6.72		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Maruthi Layout								
		Cum	1	6.00	1.20		7.20		
		Cum	1	5.10	1.20		6.12		
		Cum	1	5.50	1.20		6.60		
	Siddhi Vinayaka Layout								
	1st Main Road	Cum	1	3.90	1.20		4.68		
	2nd Cross Road	Cum	1	4.70	1.20		5.64		
	2ndA Cross Road	Cum	1	5.10	1.20		6.12		
	5th Main Road	Cum	1	5.00	1.20		6.00		
		Cum	2	6.00	1.20		14.40		
	Data rate	**5418.00**							
	Total						**88.68**	**5418.00**	**480469.00**
12	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. Mix 1:2:4 (M15) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)								
	Flagging coarse PCC	**Cum**							
	Ganesh Nagara								
	6th Cross Road	Cum	2	167.80	0.15	0.15	7.55		
	7th Cross Road	Cum	2	147.90	0.15	0.15	6.66		
	7th A Cross Road	Cum	2	117.00	0.15	0.15	5.27		
	8th C Cross Road	Cum	2	197.00	0.15	0.15	8.87		
	8th B Cross Road	Cum	2	93.00	0.15	0.15	4.19		
	8th A Cross Road	Cum	2	108.00	0.15	0.15	4.86		
	9th Cross Road	Cum	2	58.00	0.15	0.15	2.61		
	Maruthi Layout								
	9th Cross Road	Cum	2	117.00	0.15	0.15	5.27		
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	2	207.50	0.15	0.15	9.34		
	2nd A Cross Road	Cum	2	46.00	0.15	0.15	2.07		
	2nd Cross Road	Cum	2	30.30	0.15	0.15	1.36		
	Flagging coarse Coping	**Cum**							
	Ganesh Nagara								
	6th Cross Road	Cum	4	167.80	0.15	0.10	10.07		
	7th Cross Road	Cum	4	147.90	0.15	0.10	8.87		
	7th A Cross Road	Cum	4	117.00	0.15	0.10	7.02		
	8th C Cross Road	Cum	4	197.00	0.15	0.10	11.82		
	8th B Cross Road	Cum	4	93.00	0.15	0.10	5.58		
	8th A Cross Road	Cum	4	108.00	0.15	0.10	6.48		

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	9th Cross Road	Cum	4	58.00	0.15	0.10	3.48		
	Maruthi Layout								
	9th Cross Road	Cum	4	117.00	0.15	0.10	7.02		
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	4	207.50	0.15	0.10	12.45		
	2nd A Cross Road	Cum	4	46.00	0.15	0.10	2.76		
	2nd Cross Road	Cum	4	30.30	0.15	0.10	1.82		
	Drain Bed Concrete								
	Ganesh Nagara								
	8th C Cross Road	Cum	2	197.00	0.50	0.15	29.55		
	8th B Cross Road	Cum	2	93.00	0.50	0.15	13.95		
	8th A Cross Road	Cum	2	108.00	0.50	0.15	16.20		
	Maruthi Layout								
	9th Cross Road	Cum	2	117.00	0.50	0.15	17.55		
	Siddhi Vinayaka Layout								
	2nd A Cross Road	Cum	2	46.00	0.50	0.15	6.90		
	2nd Cross Road	Cum	2	30.30	0.50	0.15	4.55		
	For Kerb Pcc								
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	2	207.50	0.20	0.10	8.30		
	Basic rate	6096.00							
	Area weightage 10%	609.60							
	Sub Total	**6705.60**							
	Total						**232.39**	**6705.60**	**1558332.00**
13	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol -II Pg 17 item no 6.33)								
	Flagging coarse	**Sqm**							
	Ganesh Nagara								
	6th Cross Road	Sqm	4	167.80		0.60	402.72		
	7th Cross Road	Sqm	4	147.90		0.60	354.96		
	7th A Cross Road	Sqm	4	117.00		0.40	187.20		
	8th C Cross Road	Sqm	4	197.00		0.60	472.80		
	8th B Cross Road	Sqm	4	93.00		0.40	148.80		
	8th A Cross Road	Sqm	4	108.00		0.60	259.20		
	9th Cross Road	Sqm	4	58.00		0.40	92.80		
	Maruthi Layout								
	9th Cross Road	Sqm	4	117.00		0.60	280.80		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	4	207.50		0.40	332.00		
	2nd A Cross Road	Sqm	4	46.00		0.60	110.40		
	2nd Cross Road	Sqm	4	30.30		0.60	72.72		
	Basic rate	1067.00							
	Area weightage 10%	106.70							
	Sub Total	**1173.70**							
	Total						**2714.40**	**1173.70**	**3185892.00**
14	Supplying and fixing M15 grade precast cement concrete 600 x 300 x 150 mm Kerb Stone for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge. (PWD SR 2021-22 Vol III Pg no 146 Item no 6.3)								
	Siddhi Vinayaka								
	4th Main Road	m	2	207.50			415.00		
	Basic rate	423.00							
	Area weightage 10%	42.30							
	Sub Total	**465.30**							
	Total						**415.00**	**465.30**	**193100.00**
15	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces. MORTH Chapter 803 (PWD SR 2021-22 Vol								
	Kerb Painting	**Sqm**							
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	2	207.50		0.35	145.25		
	Basic rate	85.00							
	Area weightage 10%	8.50							
	Sub Total	**93.50**							
	Total						**145.25**	**93.50**	**13581.00**
16	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils								
	For Cut Portion	**Cum**							
	Pillappa Layout								
	W0815								
		Cum	1	2.30	0.60	0.23	0.32		
		Cum	2	235.00	1.50	0.23	162.15		
	Siddhi Vinayaka Layout								
	4th Main Road								
		Cum	2	207.50	1.50	0.23	143.18		

Sl No.	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	New Road								
	Siddhi Vinayaka Layout								
	Cross Road 1	Cum	1	35.00	5.00	0.38	66.50		
	For CC Road								
	Siddhivinayaka Layout								
	1st Main Road	Cum	1	104.00	3.20	0.10	33.28		
	Basic rate	65.00							
	Area weightage 10%	6.50							
	Sub Total	**71.50**							
	Total						**405.42**	**71.50**	**28988.00**
17	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead MORTH Specification No. 305.4.3 PWD SR 21-22 Vol III Pg no 15 Item No 3.5)								
	New Road	Sqm							
	Ganesh Nagara								
	6th Cross Road	Sqm	1	167.80	4.00		671.20		
	7th Cross Road	Sqm	1	147.90	4.30		635.97		
	7th A Cross Road	Sqm	1	117.00	4.80		561.60		
	8th C Cross Road	Sqm	1	197.00	5.80		1142.60		
	8th B Cross Road	Sqm	1	93.00	5.50		511.50		
	8th A Cross Road	Sqm	1	108.00	5.50		594.00		
	9th Cross Road	Sqm	1	58.00	5.00		290.00		
	10th Cross Road	Sqm	1	52.00	4.70		244.40		
	11th Cross Road	Sqm	1	157.00	5.30		832.10		
	Maruthi Layout								
	8th Cross Road	Sqm	1	52.00	5.10		265.20		
		Sqm	1	34.00	3.30		112.20		
	9th Cross Road	Sqm	1	117.00	4.30		503.10		
	10th Cross Road	Sqm	1	29.00	4.20		121.80		
	7th Cross Road	Sqm	1	36.00	4.80		172.80		
	Siddhi Vinayaka Layout								
	2nd A Cross Road	Sqm	1	46.00	4.30		197.80		
	2nd Cross Road	Sqm	1	30.30	3.50		106.05		
	5th Main Road	Sqm	1	32.00	4.50		144.00		
	Basic rate	4.00							
	Area weightage 10%	0.40							
	Sub Total	**4.40**							
	Total						**7106.32**	**4.40**	**31268.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
18	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(PWD SR 2018-2019 I No-19.64,P No-147)								
	For New Road	**Sqm**							
	Ganesh Nagara								
	6th Cross Road	Sqm	1	167.80	4.00		671.20		
	7th Cross Road	Sqm	1	147.90	4.30		635.97		
	7th A Cross Road	Sqm	1	117.00	4.80		561.60		
	8th C Cross Road	Sqm	1	197.00	5.80		1142.60		
	8th B Cross Road	Sqm	1	93.00	5.50		511.50		
	8th A Cross Road	Sqm	1	108.00	5.50		594.00		
	9th Cross Road	Sqm	1	58.00	5.00		290.00		
	10th Cross Road	Sqm	1	52.00	4.70		244.40		
	11th Cross Road	Sqm	1	157.00	5.30		832.10		
	Maruthi Layout								
	8th Cross Road	Sqm	1	52.00	5.10		265.20		
		Sqm	1	34.00	3.30		112.20		
	9th Cross Road	Sqm	1	117.00	4.30		503.10		
	10th Cross Road	Sqm	1	29.00	4.20		121.80		
	7th Cross Road	Sqm	1	36.00	4.80		172.80		
	Siddhi Vinayaka Layout								
	Cross Road 1	Sqm	1	35.00	5.00		175.00		
	2nd A Cross Road	Sqm	1	46.00	4.30		197.80		
	2nd Cross Road	Sqm	1	30.30	3.50		106.05		
	5th Main Road	Sqm	1	32.00	4.50		144.00		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	**6.36**							
	Total						**7281.32**	**6.36**	**46310.00**
19	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriageof mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (For Grading -V Material) (PWD SR 21-22 Vol III Pg no 19 Item No 4.1 A (v))								
		Cum							
	For New Road								
	Siddhi Vinayaka Layout								
	Cross Road 1	Cum	1	35.00	5.00	0.15	26.25		
	Basic rate	2347.00							
	Area weightage 10%	234.70							
	Sub Total	**2581.70**							
	Total						**26.25**	**2581.70**	**67770.00**

Sl No	Description of work	Mesurement					Qty.	Rate	Amount
		Unit	No.	L	B	D			
20	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and								
	For Cut Portion	**Cum**							
	Pillappa Layout								
	W0815								
		Cum	1	2.30	0.60	0.23	0.32		
		Cum	2	235.00	1.50	0.23	162.15		
	Siddhi Vinayaka Layout								
	4th Main Road								
		Cum	2	207.50	1.50	0.23	143.18		
	For New Road								
	Ganesh Nagara								
	6th Cross Road	Cum	1	167.80	4.00	0.23	154.38		
	7th Cross Road	Cum	1	147.90	4.30	0.23	146.27		
	7th A Cross Road	Cum	1	117.00	4.80	0.23	129.17		
	8th C Cross Road	Cum	1	197.00	5.80	0.23	262.80		
	8th B Cross Road	Cum	1	93.00	5.50	0.23	117.65		
	8th A Cross Road	Cum	1	108.00	5.50	0.23	136.62		
	9th Cross Road	Cum	1	58.00	5.00	0.23	66.70		
	10th Cross Road	Cum	1	52.00	4.70	0.23	56.21		
	11th Cross Road	Cum	1	157.00	5.30	0.23	191.38		
	Maruthi Layout								
	8th Cross Road	Cum	1	52.00	5.10	0.23	61.00		
		Cum	1	34.00	3.30	0.23	25.81		
	9th Cross Road	Cum	1	117.00	4.30	0.23	115.71		
	10th Cross Road	Cum	1	29.00	4.20	0.23	28.01		
	7th Cross Road	Cum	1	36.00	4.80	0.23	39.74		
	Siddhi Vinayaka Layout								
	Cross Road 1	Cum	1	35.00	5.00	0.23	40.25		
	2nd A Cross Road	Cum	1	46.00	4.30	0.23	45.49		
	2nd Cross Road	Cum	1	30.30	3.50	0.23	24.39		
	5th Main Road	Cum	1	32.00	4.50	0.23	33.12		
	Basic rate	2394.00							
	Area weightage 10%	239.40							
	Sub Total	**2633.40**							
	Total						**1980.35**	**2633.40**	**5215044.00**
21	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(PWD SR 2018-2019 P.No.158,I.No.21.1)								
	For Cut Portion	**Sqm**							

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Pillappa Layout								
	W0815								
		Sqm	1	2.30	0.60		1.38		
		Sqm	2	235.00	1.50		705.00		
	Siddhi Vinayaka Layout								
	4th Main Road								
		Sqm	2	207.50	1.50		622.50		
	For New Road								
	Ganesh Nagara								
	6th Cross Road	Sqm	1	167.80	4.00		671.20		
	7th Cross Road	Sqm	1	147.90	4.30		635.97		
	7th A Cross Road	Sqm	1	117.00	4.80		561.60		
	8th C Cross Road	Sqm	1	197.00	5.80		1142.60		
	8th B Cross Road	Sqm	1	93.00	5.50		511.50		
	8th A Cross Road	Sqm	1	108.00	5.50		594.00		
	9th Cross Road	Sqm	1	58.00	5.00		290.00		
	10th Cross Road	Sqm	1	52.00	4.70		244.40		
	11th Cross Road	Sqm	1	157.00	5.30		832.10		
	Maruthi Layout								
	8th Cross Road	Sqm	1	52.00	5.10		265.20		
		Sqm	1	34.00	3.30		112.20		
	9th Cross Road	Sqm	1	117.00	4.30		503.10		
	10th Cross Road	Sqm	1	29.00	4.20		121.80		
	7th Cross Road	Sqm	1	36.00	4.80		172.80		
	Siddhi Vinayaka Layout								
	Cross Road 1	Sqm	1	35.00	5.00		175.00		
	2nd A Cross Road	Sqm	1	46.00	4.30		197.80		
	2nd Cross Road	Sqm	1	30.30	3.50		106.05		
	5th Main Road	Sqm	1	32.00	4.50		144.00		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	**22.26**							
	Total						**8610.20**	**22.26**	**191664.00**
22	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))								
	For Cut Portion	Sqm							
	Pillappa Layout								
	W0815								
		Cum	1	2.30	0.60		1.38		
		Cum	2	235.00	1.50		705.00		

Description of work	Unit	Mesurement				Qty.	Rate	Amount
		No.	L	B	D			
Siddhi Vinayaka Layout								
4th Main Road								
	Cum	2	207.50	1.50		622.50		
For New Road								
Ganesh Nagara								
6th Cross Road	Sqm	1	167.80	4.00		671.20		
7th Cross Road	Sqm	1	147.90	4.30		635.97		
7th A Cross Road	Sqm	1	117.00	4.80		561.60		
8th C Cross Road	Sqm	1	197.00	5.80		1142.60		
8th B Cross Road	Sqm	1	93.00	5.50		511.50		
8th A Cross Road	Sqm	1	108.00	5.50		594.00		
9th Cross Road	Sqm	1	58.00	5.00		290.00		
10th Cross Road	Sqm	1	52.00	4.70		244.40		
11th Cross Road	Sqm	1	157.00	5.30		832.10		
Maruthi Layout								
8th Cross Road	Sqm	1	52.00	5.10		265.20		
	Sqm	1	34.00	3.30		112.20		
9th Cross Road	Sqm	1	117.00	4.30		503.10		
10th Cross Road	Sqm	1	29.00	4.20		121.80		
7th Cross Road	Sqm	1	36.00	4.80		172.80		
Siddhi Vinayaka Layout								
Cross Road 1	Sqm	1	35.00	5.00		175.00		
2nd A Cross Road	Sqm	1	46.00	4.30		197.80		
2nd Cross Road	Sqm	1	30.30	3.50		106.05		
5th Main Road	Sqm	1	32.00	4.50		144.00		
20% Profile Correction								
Pillappa Layout								
W0815	Sqm	0.2	235.00	5.10		239.70		
Siddhi Vinayaka Layout								
4th Main Road	Sqm	0.2	207.50	4.50		186.75		
Basic rate	44.00							
Area weightage 10%	4.40							
Sub Total	**48.40**							
Total						**9036.65**	**48.40**	**437374.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
23	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
	For Cut Portion								
	Pillappa Layout								
	W0815								
		Cum	1	2.30	0.60	0.05	0.07		
		Cum	2	235.00	1.50	0.05	35.25		
	Siddhi Vinayaka Layout								
	4th Main Road								
		Cum	2	207.50	1.50	0.05	31.13		
	For New Road								
	Ganesh Nagara								
	6th Cross Road	Cum	1	167.80	4.00	0.05	33.56		
	7th Cross Road	Cum	1	147.90	4.30	0.05	31.80		
	7th A Cross Road	Cum	1	117.00	4.80	0.05	28.08		
	8th C Cross Road	Cum	1	197.00	5.80	0.05	57.13		
	8th B Cross Road	Cum	1	93.00	5.50	0.05	25.58		
	8th A Cross Road	Cum	1	108.00	5.50	0.05	29.70		
	9th Cross Road	Cum	1	58.00	5.00	0.05	14.50		
	10th Cross Road	Cum	1	52.00	4.70	0.05	12.22		
	11th Cross Road	Cum	1	157.00	5.30	0.05	41.61		
	Maruthi Layout								
	8th Cross Road	Cum	1	52.00	5.10	0.05	13.26		
		Cum	1	34.00	3.30	0.05	5.61		
	9th Cross Road	Cum	1	117.00	4.30	0.05	25.16		
	10th Cross Road	Cum	1	29.00	4.20	0.05	6.09		
	7th Cross Road	Cum	1	36.00	4.80	0.05	8.64		
	Siddhi Vinayaka Layout								
	Cross Road 1	Cum	1	35.00	5.00	0.05	8.75		
	2nd A Cross Road	Cum	1	46.00	4.30	0.05	9.89		
	2nd Cross Road	Cum	1	30.30	3.50	0.05	5.30		
	5th Main Road	Cum	1	32.00	4.50	0.05	7.20		
	20% Profile Correction								
	Pillappa Layout								
	W0815	Cum	0.2	235.00	5.10	0.05	11.99		
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	0.2	207.50	4.50	0.05	9.34		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Basic rate	9889.00							
	Area weightage 10%	988.90							
	Sub Total	**10877.90**							
	Total						**451.83**	**10877.90**	**4914989.00**
24	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(PWD SR 2018-2019 P.No.158,I.No.21.2).								
	BC overlay	**Sqm**							
	Ganesh Nagara								
	6th Cross Road	Sqm	1	167.80	4.00		671.20		
	7th Cross Road	Sqm	1	147.90	4.30		635.97		
	7th A Cross Road	Sqm	1	117.00	4.80		561.60		
	8th C Cross Road	Sqm	1	197.00	5.80		1142.60		
	8th B Cross Road	Sqm	1	93.00	5.50		511.50		
	8th A Cross Road	Sqm	1	108.00	5.50		594.00		
	9th Cross Road	Sqm	1	58.00	5.00		290.00		
	10th Cross Road	Sqm	1	52.00	4.70		244.40		
	11th Cross Road	Sqm	1	157.00	5.30		832.10		
	Pillappa Layout								
	W0815	Sqm	1	235.00	5.10		1198.50		
	Maruthi Layout								
	8th Cross Road	Sqm	1	52.00	5.10		265.20		
		Sqm	1	34.00	3.30		112.20		
	9th Cross Road	Sqm	1	117.00	4.30		503.10		
	10th Cross Road	Sqm	1	29.00	4.20		121.80		
	7th Cross Road	Sqm	1	36.00	4.80		172.80		
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	1	207.50	4.50		933.75		
	Cross Road 1	Sqm	1	35.00	5.00		175.00		
	2nd A Cross Road	Sqm	1	46.00	4.30		197.80		
	2nd Cross Road	Sqm	1	30.30	3.50		106.05		
	5th Main Road	Sqm	1	32.00	4.50		144.00		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	**5.30**							
	Total						**9413.57**	**5.30**	**49892.00**
25	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 (PWD SR 21-22 Vol III Pg no 29 Item No 5.4 (ii))								
		Sqm							
	Ganesh Nagara								
	6th Cross Road	Sqm	1	167.80	4.00		671.20		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	7th Cross Road	Sqm	1	147.90	4.30		635.97		
	7th A Cross Road	Sqm	1	117.00	4.80		561.60		
	8th C Cross Road	Sqm	1	197.00	5.80		1142.60		
	8th B Cross Road	Sqm	1	93.00	5.50		511.50		
	8th A Cross Road	Sqm	1	108.00	5.50		594.00		
	9th Cross Road	Sqm	1	58.00	5.00		290.00		
	10th Cross Road	Sqm	1	52.00	4.70		244.40		
	11th Cross Road	Sqm	1	157.00	5.30		832.10		
	Pillappa Layout								
	W0815	Sqm	1	235.00	5.10		1198.50		
	Maruthi Layout								
	8th Cross Road	Sqm	1	52.00	5.10		265.20		
		Sqm	1	34.00	3.30		112.20		
	9th Cross Road	Sqm	1	117.00	4.30		503.10		
	10th Cross Road	Sqm	1	29.00	4.20		121.80		
	7th Cross Road	Sqm	1	36.00	4.80		172.80		
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	1	207.50	4.50		933.75		
	Cross Road 1	Sqm	1	35.00	5.00		175.00		
	2nd A Cross Road	Sqm	1	46.00	4.30		197.80		
	2nd Cross Road	Sqm	1	30.30	3.50		106.05		
	5th Main Road	Sqm	1	32.00	4.50		144.00		
	Basic rate	15.00							
	Area weightage 10%	1.50							
	Sub Total	**16.50**							
	Total						**9413.57**	**16.50**	**155324.00**
26	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)								
	Ganesh Nagara								
	6th Cross Road	Cum	1	167.80	4.00	0.04	26.85		
	7th Cross Road	Cum	1	147.90	4.30	0.04	25.44		
	7th A Cross Road	Cum	1	117.00	4.80	0.04	22.46		
	8th C Cross Road	Cum	1	197.00	5.80	0.04	45.70		
	8th B Cross Road	Cum	1	93.00	5.50	0.04	20.46		
	8th A Cross Road	Cum	1	108.00	5.50	0.04	23.76		
	9th Cross Road	Cum	1	58.00	5.00	0.04	11.60		
	10th Cross Road	Cum	1	52.00	4.70	0.04	9.78		
	11th Cross Road	Cum	1	157.00	5.30	0.04	33.28		
	Pillappa Layout								
	W0815	Cum	1	235.00	5.10	0.04	47.94		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Maruthi Layout								
	8th Cross Road	Cum	1	52.00	5.10	0.04	10.61		
		Cum	1	34.00	3.30	0.04	4.49		
	9th Cross Road	Cum	1	117.00	4.30	0.04	20.12		
	10th Cross Road	Cum	1	29.00	4.20	0.04	4.87		
	7th Cross Road	Cum	1	36.00	4.80	0.04	6.91		
	Siddhi Vinayaka Layout								
	4th Main Road	Cum	1	207.50	4.50	0.04	37.35		
	Cross Road 1	Cum	1	35.00	5.00	0.04	7.00		
	2nd A Cross Road	Cum	1	46.00	4.30	0.04	7.91		
	2nd Cross Road	Cum	1	30.30	3.50	0.04	4.24		
	5th Main Road	Cum	1	32.00	4.50	0.04	5.76		
	Basic rate	11531.00							
	Area weightage 10%	1153.10							
	Sub Total	**12684.10**							
	Total						**376.54**	**12684.10**	**4776107.00**
27	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)								
		Sqm							
	Ganesh Nagara								
	6th Cross Road	Sqm	2	167.80	0.10		33.56		
	7th Cross Road	Sqm	2	147.90	0.10		29.58		
	7th A Cross Road	Sqm	2	117.00	0.10		23.40		
	8th C Cross Road	Sqm	2	197.00	0.10		39.40		
	8th B Cross Road	Sqm	2	93.00	0.10		18.60		
	8th A Cross Road	Sqm	2	108.00	0.10		21.60		
	9th Cross Road	Sqm	2	58.00	0.10		11.60		
	10th Cross Road	Sqm	2	52.00	0.10		10.40		
	11th Cross Road	Sqm	2	157.00	0.10		31.40		
	Pillappa Layout								
	W0815	Sqm	2	235.00	0.10		47.00		
	Maruthi Layout								
	8th Cross Road	Sqm	2	52.00	0.10		10.40		
		Sqm	2	34.00	0.10		6.80		
	9th Cross Road	Sqm	2	117.00	0.10		23.40		
	10th Cross Road	Sqm	2	29.00	0.10		5.80		
	7th Cross Road	Sqm	2	36.00	0.10		7.20		
	Siddhi Vinayaka Layout								
	4th Main Road	Sqm	2	207.50	0.10		41.50		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Cross Road 1	Sqm	2	35.00	0.10		7.00		
	2nd A Cross Road	Sqm	2	46.00	0.10		9.20		
	2nd Cross Road	Sqm	2	30.30	0.10		6.06		
	5th Main Road	Sqm	2	32.00	0.10		6.40		
	Basic rate	478.00							
	Area weightage 10%	47.80							
	Sub Total	**525.80**							
	Total						**390.30**	**525.80**	**205220.00**
28	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately MORTH Specification No. 202(PWD SR 2021-22 Vol -III P.No.10 - I.No.2.19)								
	Siddhivinayaka Layout	**Cum**							
	1st Main Road	Cum	1	104.00	3.20	0.20	66.56		
	Basic rate	422.00							
	Area weightage 10%	42.20							
	Sub Total	**464.20**							
	Total						**66.56**	**464.20**	**30898.00**
29	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. MORTH Specification No. 601(PWD SR 2021-22 Vol -III P.No.43 - I.No.6.1)								
	Siddhivinayaka Layout	Cum							
	1st Main Road	Cum	1	104.00	3.20	0.15	49.92		
	Basic rate	4196.00							
	Area weightage 10%	419.60							
	Sub Total	**4615.60**							
	Total						**49.92**	**4615.60**	**230411.00**
30	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)								

	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
	Siddhivinayaka Layout	Cum							
	1st Main Road	Cum	1	104.00	3.20	0.15	49.92		
	Basic rate	6837.00							
	Area weightage 10%	683.70							
	Sub Total	**7520.70**							
	Total						49.92	**7520.70**	**375434.00**
31	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge. MORTH Specification No. 602.6.3(PWD SR 2021-22 Vol -III Pg 146 item no 4)								
	Siddhivinayaka								
	1st Main Road	m	27	3.20			86.40		
	Basic rate	70.00							
	Area weightage 10%	7.00							
	Sub Total	**77.00**							
	Total						**86.40**	**77.00**	**6653.00**
32	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (approx. 25% larger than the initial 3 mm.to 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8mm.wide). MORTH Specification No. 602.6.3(PWD SR 2021-22 Vol -III Pg 147 item no 5)								
	Qty Vide frm Item No-31	m					86.40		
	Basic rate	165.00							
	Area weightage 10%	16.50							
	Sub Total	**181.50**							
	Total						86.40	**181.50**	**15682.00**
33	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)								
	Qty Vide frm Item No-1+2+4+16+28	**Cum**					3029.41		
	Total						**3029.41**	**81.40**	**246595.00**
	Basic rate	74.00							
	Area Weightage 10%	7.40							
	Total	**81.40**							

Description of work	Unit	Mesurement				Qty.	Rate	Amount
		No.	L	B	D			
Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
Qty frm Item No-33	**t.Km**		3029.41	1.28		3877.65		
Total						**3877.65**	**115.50**	**447869.00**
15Km 7*15	105.00							
Area Weightage 10%	10.50							
Total	**115.50**							
							Grand Total	**41560527.00**
							GST Charges (12% of estimated cost)	**4987264.00**
							DPR Charges (1% of estimated cost)	**475000.00**
							Project management And Consultancy Charges(1% of estimated cost)	**475000.00**
							Miscellenious and rounding	**2209.00**
							Total Amount	**47500000.00**
							RUPEES FOUR CRORE SEVENTY FIVE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022 Issue Rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Executive Engineer
BBMP

ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

RUDRAPRASAD CONSULTANTS
BANGALORE

Technical Sanction
Accorded For Rs 475 lakhs only
Head of A/C 70190
CER NO : 01 Dt: 11.04.2022

ADMINISTRATIVE APPROVAL
Accorded For Rs. 475.00 Lakhs only
Head of A/c. P0190
Div. Ref No. 06/22-23 Date 29/07/22

AE

EE(BTP)